



## DRI-ONE® FLAME RETARDANT SAFETY DATA SHEET

### SECTION 1: Identification

**MANUFACTURER:** DESERT RESEARCH INSTITUTE, INC.

**Desert Research Institute, Inc.** has been in business since 1958 manufacturing our product DRI-ONE®. DRI-ONE® is a Safe, Non-Toxic, Non-Hazardous formula for the treatment of Foam, Fabric, Wood, and Plant Based Products for the prevention of combustion and flame spread in case of fire. DRI-ONE® is an All IN ONE Class A Flame Retardant. DRI-ONE® is formulated to Protect, Penetrate and Bond to the cellular structure of absorbent materials. DRI-ONE® is clear water based, ready to use flame retardant. This product has been used in both the business and personal environments for over 60 years.

**Product:** DRI-ONE® Class A Flame Retardant (Non-Toxic, Non-Hazardous)

**Flame Rating Classification:** **Class A** A.S.T.M. E-84 and **Class 1** for NFPA 701 & C.A.C. Title 19

**Flame Retardant Agency Approval**

**DRI-ONE®** Flame Retardant meets the fabric testing standards set forth by the United States Testing Company, Inc. for the California Administrative Code, Title 19 for Class A Flame Retardant and for those set forth by the British Standard 476: Part 7: #1997 for Class One Flame Retardant, DRI-ONE® Flame Retardant also meets the standards set forth in the NFPA 701, Class A. Test results are available upon request.

**DRI-ONE®** has a number of uses including treatment of lumber to achieve a Class A flame spread rating as set forth in A.S.T.M. E84, also known as the Steiner Tunnel Test. This method is similar to ANSI 2.5, NFPA No. 225, UBC No. 42-1 and UL No. 723.

**Applications:** Spray, brush, roll, and/or submerge on absorbent materials such as foam, fabric, wood and plant based products.

**Manufacture:** Desert Research Institute, Inc.

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### SECTION 2: Hazard(s) Identification

**HAZARD RATING (NFPA 704) HAZARD RATING SCALE:**

**HEALTH:** 1 0 = MINIMAL 3 = SERIOUS

**FIRE:** 0 1 = SLIGHT 4 = SEVERE

**REACTIVITY:** 1 2 = MODERATE

**SPECIAL:** OXY



### SECTION 3: Composition / Information on Ingredients

None of the components of this product are hazardous.

### SECTION 4: First-Aid Measures

**In Case of Eye Contact:** Immediately flush eyes with clear water. Seek medical attention if irritation persists.

**In Case of Skin Irritation:** Immediately wash skin with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists after washing.

**If Swallowed:** Do not induce vomiting. Drink several glass of water. Seek medical attention if necessary.

## SECTION 5: Fire-Fighting Measures

**Flash Point:** DEG. F: None

**Flammable Limits:** Non-Flammable.

**LEL:** Not Applicable.

**UEL:** Not Applicable.

**Extinguishing Media:** This material is not combustible. Use extinguishing media appropriate for surrounding fire.

**Special Fire Fighting Procedures:** None.

## SECTION 6: Accidental Release Measures

**Spill or Leak Procedures:** Rinse affected area with water. DRI-ONE will not harm the environment.

**Waste Disposal Method:** Dispose as Non-Hazardous waste in accordance with local regulations.

## SECTION 7: Handling and Storage

**Handling:** Use rubber gloves and eye shields if product causes irritation. Clean up with clear water.

**DO NOT DILUTE:** Ready to use flame retardant

**Storage:** Store in plastic containers in temperature controlled environments. Avoid direct sunlight.

**DO NOT STORE BELOW 32° F - 0° C**

**Other Precautions:**

**Corrosiveness:** DRI-ONE® is Non-Corrosive to metals when dry. DRI-ONE is mildly corrosive when applied wet to metals. Wash any metal surfaces exposed to DRI-ONE with a damp cloth or rinse with clean water.



## SECTION 8: Exposure Controls / Personal Protection

**Eye Protection:** Wear to prevent probability of eye contact.

**Protective Gloves:** Wear if there is prolonged skin contact.

**Respiratory Protection:** Not required.

**Work/ Hygienic Practices:** Do not ingest, do not splash into eyes.

**Ventilation:** No special ventilation is required.

**Exposure Limits OSHA PEL:** Not Established.

**ACGIH TLV:** Not Established.

**Routes of Entry**

**Inhalation:** Yes.

**Ingestion:** Yes.

**Skin:** Yes.

**Signs and Symptoms of Exposure**

**Skin:** Not a primary skin irritant.

**Eyes:** Not a primary ocular irritant.

**Inhalation:** Negligible.

**Ingestion:** Material considered non-toxic. If ingested, administer eight ounces of water. Do not induce vomiting. Contact physician.



## SECTION 9: Physical and Chemical Properties

**BOILING POINT:** DEG. F: 320 (DEC)

**pH:** 6.8

**WATER SOLUBILITY:** %: >50

**VAPOR PRES:** MM HG/20

**VAPOR DEN:** (AIR=1): N/A

**SPECIFIC GRAVITY:** (WATER=1): 0.95

**MELTING POINT:** DEG. F: 267.8

**SULFAMIC ACID DERIVATIVE** – 15.5%

**PROPRIETARY COMPOUNDS** – 16.54%

**WATER AND PROPRIETARY AGENTS** – 67.96%

## SECTION 10: Stability and Reactivity

**Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Decomposition Products:** In liquid form there may be faint odor of ammonia and oxide traces of sulfur and nitrogen.

**Oral:** RAT LD50 = 1.6 G/KG

## SECTION 11: Toxicological Information

**Skin:** Repeated application of 20% or 50% aqueous solutions to rat skin did not irritate the skin.

**Inhalation:** No data found.

**CARCINOGENICITY:** This matter is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

**NTP:** None

**IARC:** None

**OSHA Regulated:** None

**Other Data:** None.

## SECTION 12: Ecological Information

**Biodegradability:** Readily degradable in the environment

**Disposal:** DRI-ONE® flame retardant can be disposed through municipal system

## SECTION 13: Disposal Considerations

Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for their intended use, and user assumes all risk and liability whatsoever in connection therewith. If product is tamper evident, do not use and contact Desert Research Institute, Inc. immediately.

## SECTION 14: Transport Information

**U.S Department of Transportation:** Not Regulated

**International Transportation:** Non Regulated

**Canadian Transportation of Dangerous Goods:** Non Regulated

## **SECTION15: Regulatory Information**

US Federal Regulations: This product is not known to contain "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. Safe Drinking Water Act: N/A Drug Enforcement Agency: N/A Food and Drug Administration: N/A WHMIS: Not Controlled Section 302 Extremely Hazardous Substance: NO Section 311 Hazardous Chemical: NO SARA Hazard Categories: Immediate Hazard- NO Delayed Hazard: NO Fire Hazard: NO Pressure Hazard: NO Reactivity Hazard: NO This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. U.S Minnesota - Hazardous Substance List U.S Massachusetts - Right to Know List U.S Pennsylvania - Right to Know List U.S Rhode Island - Hazardous Substance List U.S Texas - Effects Screening Levels - Short/Long Term United States & Puerto Rico Non-Domestic Substance List: No Toxic Substances Control Act inventory: Yes Canada Domestic Substance List: Yes

## **SECTION 16: Other Information**

**Prepared By: Desert Research Institute, Inc.**

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### **Disclaimer:**

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**End of SDS**